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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/063,751	05/10/2002	Chu-Chia Tsai	ACIP0013USA	7421

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NAIPO (NORTH AMERICA INTERNATIONAL PATENT OFFICE)  
P.O. BOX 506  
MERRIFIELD, VA 22116

EXAMINER

CHANG, YEAN HSI

ART UNIT PAPER NUMBER

2835

DATE MAILED: 11/18/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

<p align="center"><b>Office Action Summary</b></p>	<b>Application No.</b> 10/063,751	<b>Applicant(s)</b> TSAI ET AL.	
	<b>Examiner</b> Yean-Hsi Chang	<b>Art Unit</b> 2835	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 26 September 2003.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 10 May 2002 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. §§ 119 and 120**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) ☐ All    b) ☐ Some \*    c) ☐ None of:  
     1. ☐ Certified copies of the priority documents have been received.  
     2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
     3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
 \* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.  
 a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                  | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____  |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)         | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ | 6) <input type="checkbox"/> Other: _____                                    |

## **DETAILED ACTION**

### ***Specification***

1. The disclosure is objected to because of the following informalities: A numerous number of spaces between words are missing, especially in paragraphs [0031], [0032], [0034] and [0038].

Appropriate correction is required.

### ***Drawings***

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "an array of light sensors" must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

### ***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-2, 5-6, 9-10 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ketcham (US 6,195,589 B1) in view of Yerazunis et al. (US 6,477,588 B1).

Ketcham teach a personal digital assistant (12, fig. 1) comprising:

- A housing (9, fig. 1) (claims 1 and 9)
- A liquid crystal display panel (19, fig. 1) (claims 1 and 9)
- A slot (near 34, fig. 1) installed on a first side (18, fig. 1) of the housing (claims 1 and 9)
- A latch (not shown) (see col.3, lines 17-19) (claims 1 and 9)
- A release button (inherent feature not shown) (claims 1-2 and 9-10)
- A first connector (34, fig. 1) comprising a plurality of contacts (shown in fig. 1, not numbered) installed on a second side (bottom side of 9) of the housing (claims 1 and 9)
- A digital image capture device (10, fig. 1) which is detachable from the personal digital assistant, comprising: a second connector (36, fig. 1) corresponding to the first connector, comprising a plurality of corresponding contacts (shown in fig. 1, not numbered) (claims 1 and 9)

- Wherein the digital image capture device further comprises a switch (48, fig. 2) (see col. 4, lines 2-8) (claims 5 and 13)
- Wherein the digital image capture device further comprises a base (26, fig. 1) which is approximately perpendicular with the housing of the personal digital assistant (shown in fig. 1) for leaning on the personal digital assistant when the digital image capture device is connected to the personal digital assistant (claim 6)

Ketcham fails to teach the digital image capture device comprising an array of light sensors (claims 1 and 9).

Yerazunis teaches a digital image capture device (100, fig. 4) comprising an array of light sensors (110, fig. 4) for capturing a two dimensional image.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device of Ketcham with the digital image capture device taught by Yerazunis for adding a function of capturing two dimensional images.

5. Claims 3 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ketcham in view of Yerazunis et al, further in view of Cha et al. (US 6,146,210).

Ketcham in view of Yerazunis et al discloses the claimed invention except the personal digital assistant further comprising a plurality of protruding plugs installed on a surface of the housing, and the digital image capture device further comprising a plurality of sockets corresponding to the protruding plugs of the personal digital assistant for precisely engaging with the personal digital assistant.

Cha et al teaches a personal digital assistant (10, fig. 1) comprising mating connectors (30 and 40, fig. 3) including a plurality of protruding plugs (48, fig. 3), and a plurality of sockets (38, fig. 3) corresponding to the protruding plugs for precise engagement.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device of Ketcham modified by Yerazunis et al with the plugs and sockets taught by Cha for the purpose of precise engagement of the personal digital assistant and the digital image capture device.

6. Claims 4 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ketcham in view of Yerazunis et al.

Ketcham in view of Yerazunis et al discloses the claimed invention except specifying the first connector having fourteen pins and the second connector having fourteen receiving holes.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to select a male connector with 14 pins and a female connector with 14 holes, since it is well known in the art that a 14-terminal connector could be obtained off-the-shelf.

7. Claims 7-8 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ketcham in view of Yerazunis et al, further in view of Kim (US 6,301,098 B1).

Ketcham in view of Yerazunis et al discloses the claimed invention except the digital image capture device further comprises a movable lens unit which is capable of being adjusted pivotally to a predetermined position for capturing images (claims 7-8 and 14).

Kim teaches an image capture device (172, fig. 2) comprising a movable lens unit (172b, fig. 2) which is capable of being pivotally adjusted through a hinge (172c, fig. 2) to a predetermined position for capturing images.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the device of Ketcham modified by Yerazunis et al. with the image capture device taught by Kim for easily capturing images

### ***Response to Arguments***

8. Applicant's arguments with respect to claims 1-14 have been considered but are moot in view of the new ground(s) of rejection.
9. Applicant requests a copy of the initialed form of the accompanying PTO/SB/08 form. The mentioned form has not been received. Please follow the requirements for an IDS listed in MPEP §609 III.

### ***Conclusion***

10. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

### ***Correspondence***

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yean-Hsi Chang whose telephone number is (703) 306-5798. The examiner can normally be reached on 07:30-16:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (703) 308-4815. The fax phone number for the organization where this application or proceeding is assigned is (703) 305-3431 for regular communications and for After Final communications. There are RightFAX numbers and provide the fax sender with an auto-reply fax verifying receipt by the USPTO: Before-Final (703-872-9318) and After-Final (703-872-9319).



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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-8558.

Yean-Hsi Chang

Patent Examiner

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November 13, 2003

  
DARREN SCHUBERG  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2800  
